

SEQUENCE LISTING

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 Gough, Monisha A.
 Patrzykat, Aleksander
 Woods, Donald
 Jia, Xiaoyan

<120> ANTI-ENDOTOXIC, ANTIMICROBIAL CATIONIC
 PEPTIDES AND METHODS OF USE THEREFOR

<130> UBC1110

<140> 09/143,124

<141> 1998-08-28

<160> 25

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> antimicrobial cationic peptide

<400> 1

Lys	Trp	Lys	Leu	Phe	Lys	Lys	Ile	Gly	Ile	Gly	Ala	Val	Leu	Lys	Val
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Leu	Thr	Thr	Gly	Leu	Pro	Ala	Leu	Lys	Leu	Thr	Lys				
			20				25								

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<223> antimicrobial cationic peptide

<400> 2

Lys	Trp	Lys	Ser	Phe	Ile	Lys	Lys	Leu	Thr	Thr	Ala	Val	Lys	Lys	Val
1				5				10						15	
Leu	Thr	Thr	Gly	Leu	Pro	Ala	Leu	Ile	Ser						
			20				25								

<210> 3

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<223> antimicrobial cationic peptide

<400> 3

Lys	Trp	Lys	Ser	Phe	Ile	Lys	Lys	Leu	Thr	Ser	Ala	Ala	Lys	Lys	Val
1				5					10					15	
Val	Thr	Thr	Ala	Lys	Pro	Leu	Ala	Leu	Ile	Ser					
			20					25							

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<223> antimicrobial cationic peptide

<400> 4

Lys	Trp	Lys	Ser	Phe	Ile	Lys	Lys	Leu	Thr	Lys	Ala	Ala	Lys	Lys	Val
1				5					10					15	
Val	Thr	Thr	Ala	Lys	Lys	Pro	Leu	Ile	Val						
			20					25							

<210> 5

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<223> antimicrobial cationic peptide

<400> 5

Lys	Trp	Lys	Lys	Phe	Ile	Lys	Ser	Leu	Thr	Lys	Ser	Ala	Ala	Lys	Thr
1				5					10					15	
Val	Val	Lys	Thr	Ala	Lys	Lys	Pro	Leu	Ile	Val					
			20					25							

<210> 6

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<223> antimicrobial cationic peptide

<400> 6

Lys	Trp	Lys	Leu	Phe	Lys	Lys	Ile	Gly	Ile	Gly	Ala	Val	Leu	Lys	Val
1				5					10					15	
Leu	Lys	Val	Leu	Thr	Thr	Gly	Leu	Pro	Ala	Leu	Lys	Leu	Thr	Leu	Lys
			20					25					30		

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<223> antimicrobial cationic peptide

<400> 7

Lys Leu Phe Lys Lys Ile Gly Ile Gly Ala Val Leu Lys Val Leu Lys
 1 5 10 15
 Val Leu Thr Thr Gly Leu Pro Ala Leu Lys Leu Thr Leu Lys
 20 25 30

<210> 8

<211> 31

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<223> antimicrobial cationic peptide

<400> 8

Lys Trp Lys Phe Lys Lys Ile Gly Ile Gly Ala Val Leu Lys Val Leu
 1 5 10 15
 Lys Val Leu Thr Thr Gly Leu Pro Ala Leu Lys Leu Thr Leu Lys
 20 25 30

<210> 9

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<223> antimicrobial cationic peptide

<400> 9

Lys Leu Trp Lys Leu Phe Lys Lys Ile Gly Ile Gly Ala Val Leu Lys
 1 5 10 15
 Val Leu Lys Val Leu Thr Thr Gly Leu Pro Ala Leu Lys Leu Thr Leu
 20 25 30

Lys

<210> 10

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<223> antimicrobial cationic peptide

<400> 10

Lys Trp Lys Ser Phe Ile Lys Lys Leu Thr Ser Ala Ala Lys Lys Val
 1 5 10 15
 Thr Thr Ala Ala Lys Pro Leu Thr Lys
 20 25

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<223> antimicrobial cationic peptide

<400> 11

Lys	Trp	Lys	Lys	Phe	Ile	Lys	Lys	Ile	Gly	Ile	Gly	Ala	Val	Leu	Lys
1				5					10					15	
Val	Leu	Thr	Thr	Gly	Leu	Pro	Ala	Leu	Lys	Leu	Thr	Lys	Lys		
			20					25					30		

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<223> antimicrobial cationic peptide

<400> 12

Lys	Lys	Trp	Lys	Lys	Phe	Ile	Lys	Lys	Ile	Gly	Ile	Gly	Ala	Val	Leu
1				5					10					15	
Thr	Thr	Pro	Gly	Ala	Lys	Lys									
			20												

<210> 13

<211> 25

<212> PRT

<213> Artificial Sequence

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<223> antimicrobial cationic peptide

<400> 13

Gly	Trp	Gly	Ser	Phe	Phe	Lys	Lys	Ala	Ala	His	Val	Gly	Lys	His	Val
1				5					10					15	
Gly	Lys	Ala	Ala	Leu	Thr	His	Tyr	Leu							
			20					25							

<210> 14

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<213> Artificial Sequence

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<223> antimicrobial cationic peptide

<221> AMIDATION

<222> (0)...(0)

<223> amidated leucine (Leu) at C-terminus

<400> 14

Gly	Trp	Gly	Ser	Phe	Phe	Lys	Lys	Ala	Ala	His	Val	Gly	Lys	His	Val
1				5					10					15	
Gly	Lys	Ala	Ala	Leu	Thr	His	Tyr	Leu							
			20					25							

<210> 15

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> antimicrobial cationic peptide

<400> 15

Lys	Gly	Trp	Gly	Ser	Phe	Phe	Lys	Lys	Ala	Ala	His	Val	Gly	Lys	His
1				5				10						15	
Val	Gly	Lys	Ala	Ala	Leu	Thr	His	Tyr	Leu						
			20					25							

<210> 16

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<212> PRT

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<223> antimicrobial cationic peptide

<221> AMIDATION

<222> (0)...(0)

<223> amidated leucine (Leu) at C-terminus

<400> 16

Lys	Gly	Trp	Gly	Ser	Phe	Phe	Lys	Lys	Ala	Ala	His	Val	Gly	Lys	His
1				5				10						15	
Val	Gly	Lys	Ala	Ala	Leu	Thr	His	Tyr	Leu						
			20					25							

<210> 17

<211> 26

<212> PRT

<213> Artificial Sequence

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<223> antimicrobial cationic peptide

<221> AMIDATION

<222> (0)...(0)

<223> amidated leucine (Leu) at C-terminus

<400> 17

Ala	Leu	Trp	Lys	Thr	Met	Leu	Lys	Lys	Ala	Ala	His	Val	Gly	Lys	His
1				5				10						15	
Val	Gly	Lys	Ala	Ala	Leu	Thr	His	Tyr	Leu						
			20					25							

<210> 18

<211> 25

<212> PRT

<213> Artificial Sequence

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<223> antimicrobial cationic peptide

<221> AMIDATION

<222> (0)...(0)

<223> amidated leucine (Leu) at C-terminus

<400> 18

Ser	Ile	Gly	Ser	Ala	Phe	Lys	Lys	Ala	Ala	His	Val	Gly	Lys	His	Val
1				5				10						15	
Gly	Lys	Ala	Ala	Leu	Thr	His	Tyr	Leu							
		20						25							

<210> 19

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<212> PRT

<213> Artificial Sequence

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<223> antimicrobial cationic peptide

<400> 19

Gly	Trp	Gly	Ser	Phe	Phe	Lys	Lys	Ala	Ala	His	Val	Gly	Lys	His	Val
1				5				10						15	
Gly	Lys	Ala	Ala	Leu	Gly	Ala	Ala	Ala	Arg	Arg	Arg	Lys			
		20						25							

<210> 20

<211> 30

<212> PRT

<213> Artificial Sequence

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<223> antimicrobial cationic peptide

<400> 20

Ala	Leu	Trp	Lys	Thr	Met	Leu	Lys	Lys	Ala	Ala	His	Val	Gly	Lys	His
1				5					10						15
Val	Gly	Lys	Ala	Ala	Leu	Gly	Ala	Ala	Ala	Arg	Arg	Arg	Lys		
		20						25					30		

<210> 21

<211> 29

<212> PRT

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<223> antimicrobial cationic peptide

<400> 21

Ser	Ile	Gly	Ser	Ala	Phe	Lys	Lys	Ala	Ala	His	Val	Gly	Lys	His	Val
1				5					10					15	
Gly	Lys	Ala	Ala	Leu	Gly	Ala	Ala	Ala	Arg	Arg	Arg	Lys			
		20						25							

<210> 22

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<212> PRT

<213> Artificial Sequence

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<223> antimicrobial cationic peptide

<400> 22

Arg	Gln	Arg	Val	Glu	Glu	Leu	Ser	Lys	Phe	Ser	Lys	Lys	Gly	Ala	Ala
1				5					10					15	
Ala	Arg	Arg	Arg	Arg	Lys										
				20											

<210> 23

<211> 33

<212> PRT

<213> Artificial Sequence

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<223> antimicrobial cationic peptide

<400> 23

Ala	Leu	Trp	Lys	Thr	Met	Leu	Lys	Lys	Leu	Gly	Thr	Met	Ala	Leu	His
1				5					10					15	
Ala	Gly	Lys	Ala	Ala	Leu	Gly	Ala	Ala	Ala	Asp	Thr	Ile	Ser	Gln	Thr
			20					25					30		
Gln															

<210> 24

<211> 29

<212> PRT

<213> Artificial Sequence

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<223> antimicrobial cationic peptide

<400> 24

Ser	Ile	Gly	Ser	Ala	Phe	Lys	Lys	Ala	Leu	Pro	Val	Ala	Lys	Lys	Ile
1				5					10					15	
Gly	Lys	Ala	Ala	Leu	Pro	Ile	Ala	Lys	Ala	Ala	Leu	Pro			
			20					25							

<210> 25

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> antimicrobial cationic peptide

<400> 25

Lys	Trp	Lys	Ser	Phe	Ile	Lys	Lys	Leu	Thr	Ser	Ala	Ala	Lys	Lys	Val
1				5				10						15	
Val	Thr	Thr	Ala	Lys	Pro	Leu	Ile	Ser	Ser						
			20					25							